LIMA LOCOMOTIVE WORKS

INCORPORATED

LIMA, OHIO, U. S. A.

50-2 TON GEARED LOCOMOTIVE

PURCHASING DEPARTMENT

MATERIAL

Order No. 405 (3243) 1923 Engine Scheduled Out 45 DAYS

Order No. _____ 19____ " " " _____

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Date of Issue SEPTEMBER 25 26 1923

Date Delivered to Purchasing Dept. 9-26 1923

Date Delivered to Stores Dept. 9-27 1923

ED-193

405
(3243)

405
3243

405
(3243)
50-2

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ADDITIONS AND CHANGES AFTER ISSUE OF BOOK

ADDITIONS			CHECK
DATE	PAGE	ITEMS	
10-5-'23	13	55	ES
10-6-'23	10	20	ES
10-17-'23	6	42 To 47	"

ADDITIONS			CHECK
DATE	PAGE	ITEMS	

CHANGES			CHECK
DATE	PAGE	ITEMS	
10-2-'23	6	21-23	ES
10-3-'23	9	16	"
10-11-'23	13	55	"
10-18-'23	6	29	"
11-21-'23	1	53	"

PLATES

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 10—Ash Pan**						
2	✓		1 SET	ASH ~~Dit~~ Pan Plates	10 M.O. 5035-A					
3										
4										
5				**Group 13—Boiler**						
6	✓		1 SET	Boiler Plates	13 M O 5045A (BOILER CODE TO CONFORM TO THE PROVINCE OF BRITISH COLUMBIA)					
7				" Gusset Plates						
8				" " "						
9				" " "						
10				" " "						
11										
12										
13				**Group 20—Brake Equipment**						
14	✓		1	Brake Cyl. Bracket	3/4" × 12" × 55 1/4" TANK STEEL					
15			—	" " "						
16			—	" " "						
17										
18										
19				**Group 21—Bumpers**						
20										
21										
22				**Group 22—Cab**						
23	✓		1 SET	Cab Plates	22 M.O. 5014					
24										
25										
26				**Group 23—Cab Details**						
27			—	Cab Saddle Plate						
28			—	" Joint "						
29	✓		1	" Ventilator Plate	26" × 29" } 3/16" TANK STEEL					
30	✓		1	" " Cover	25" × 27" }					
31										
32										
33				**Group 32—Cylinder Details**						
34	✓		3	Cyl. Head Casing	1/8" × 20 1/4" DIA } SOFT STEEL					
35	✓		3	St. Chest "	1/8" × 17 3/4" × 21 1/4" }					
36										
37										
38				**Group 36—Dome**						
39	✓		1	Dome Casing Shell	32 1/2" × 98" } #10 Soft Stl.					
40	✓		1	" " Top	40" ~~34 1/2"~~ DIA. } #~~10~~ 3/16 SOFT STEEL } For future					
41	✓		1	" " Flow Bowl	6 1/2" × 45 1/4" } #10 " "					
42										
43										
44				**Group 37—Drawgear**						
45				Drawgear Shims						
46				" Tie Plate						
47				" " "						
48				" Carrier Plate						
49				" " Bolt Liner						
50										
51										
52				**Group 48—Frame and Details**						
53	✓		1	Frame Plate—Right	~~1/2"~~ 5/8" × 35" × 36'-0" LONG } because of an error in the store room a 5/8 plate was used for future use 1/2 Plate					
54	✓		1	" " —Left	1/2" × 35" × 36'-0" "					
55	✓		2	" Reinforcing Plate	5/8" × 24" × 60" "					
56	✓		1	" " "	5/8" × 10 1/2" × 61" " } TANK STEEL					
57	✓		1	" Spreader	5/8" × 10 1/2" × 60" "					
58	✓		2	" "	1" × 6 1/2" × 11'-4" "					
59	✓		1		1" × 6 1/2" × 110"					
					1" × 6 1/2" × 120" "					

PLATES

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1				**Group 48—Frame & Det. Con't**						
2	✓		6	Frame Liner Plate	3/4" × 6" × 7" } TANK STEEL					
3	✓		7	" " "	3/4" × 5 1/4" × 7" } TANK STEEL					
4	✓		1	" " "	3/4" × 5 1/4" × 9 1/2" } TANK STEEL					
5			7	" " "						
6				" " "						
7				" " "						
8										
9	✓		1	Expansion Plate	1/2" × 15 1/2" × 60" } TANK STEEL					
10	✓		1	" "	1/2" × 15" × 77" } TANK STEEL					
11										
12				**Group 53—Hand Rail & Steps**						
13	✓		2	Cab Step	30" × 33" } 1/4" TANK STEEL					
14	✓		1	" "	9" × 22" } 1/4" TANK STEEL					
15	✓		4	" "	8" × 22" } 1/4" TANK STEEL					
16				" "						
17										
18				**Group 54—Headlights**						
19	✓		1	Headlight Bracket	5/16" × 17 1/2" × 26 1/2" } TANK STEEL					
20	✓		1	" Shelf	3/16" × 20" × 30" } TANK STEEL					
21	✓		1	" "	1/4" × 14" × 24" } TANK STEEL					
22				Generator Bracket						
23	✓		1	" Shelf	1/4" × 15" × 18" TANK STEEL					
24										
25				**Group 57—Lagging & Jacket**						
26	✓		6	Jacket—Boiler	30" × 60" } #22 PICKLED STEEL					
27	✓		8	" — "	30" × 72" } #22 PICKLED STEEL					
28	✓		2	" — "	30" × 96" } #22 PICKLED STEEL					
29				" — "						
30				" — "						
31				" Band						
32				" —Cylinder						
33										
34	✓		1	Cylinder Hood	#16 × 33 1/2" × 114" PICKLED STEEL					
35				" "						
36										
37				**Group 59—Oil Cups & Lub't'n**						
38				Oil Can Shelf						
39										
40				**Group 60—Oil Burner**						
41				Oil Heater Jacket						
42				" " Support						
43										
44				**Group 62—Pilot & Snow Plow**						
45				Snow Plow						
46				" "						
47										
48				**Group 68—Reverse Lever**						
49	✓		1	Reverse Lever Quad. Plate	3/8" × 21" × 26" TANK STEEL					
50				" " " Bracket						
51				" " " "						
52										
53				**Group 71—Running Boards**						
54				Running Board						
55	✓		1	" " Bracket	1/4" × 27 1/2" × 32" } TANK STEEL (3 ✓)					
56	✓		~~2~~ 3 after 12-17-24	" "	1/4" × 13" × ~~22~~					
57	✓		~~3~~ 4	" "	1/4" × 13" × 18"					
58	✓		1	" "	3/16" × 17" × 32 1/2"					
59										

PLATES

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1				**Group 73—Sand Box**						
2	8		1	Sand Box Top—Front	3/16" × 45" DIA. } Soft Steel					
3	8		1	" " Shell "	3/16" × 13" × 89½" }					
4										
5	8		2	Sand Box Plate—Rear	35" × 70"					
6	8		1	" " " — "	8½" × 56½" } #12 Tank Steel					
7	8		1	" " " — "	8½" × 60"					
8										
9			⎫	Sand Box Plate—Flue Sander						
10			⎪	" " " — " "						
11			⎭	" " " — " "						
12										
13				**Group 75—Smoke Box & Stack**						
14	8		1	Smoke Box Front	½" × 47" DIA. } Flange Steel					
15	8		1	" " Door	3/8" × 37" " }					
16										
17	8		1	Deflector Plate	3/16" × 30" × 44¼" Tank Steel					
18			—	" "						
19			—	" "						
20										
21	8		1	Draft Pipe	18" × 35" } #10 Tank Steel					
22	8		1	" "	17" × 56" }					
23			—	" "						
24			—	" "						
25										
26			X	Smoke Stack Plates						
27										
28				**Group 78-St. Ga., S. Val. & Tur.**						
29			—	Auxiliary Turret Casing						
30										
31				**Group 81—Superheater**						
32			—	Superheater Damper						
33			—	" Pipe Jacket						
34										
35				**Group 83—Tank Engine**						
36			—	Fuel Bunk Plates						
37										
38				**Group 85—Tender Frame**						
39			—	Tender Frame Brace Plate						
40										
41				**Group 88—Tender Tank**						
42	8		1 Set	Tank Plates—Water	88 M.D. 5041					
43	8		1	" Funnel	3/16" × 28½" × 49½"					
44	8		1	" " Cover	3/8" × 19" DIA.					
45			—	" Plates—Oil						
46	8		2	" Shoveling Sheet	3/16" × 27½" × 130" Tank Steel					
47			—	" " "						
48			—	" Coal Gate						
49				**Group 91—Trottle & Dry Pipe**						
50			—	Throttle Baffle Plate						
51			—	" " "						
52										
53				**Group 93—Truck & Details**						
54	8		4	Truck Bolster Plate	69 3/4" Long } 3/8" × 11 3/4" Tank Steel					
55	8		2	" " "	83 7/8" "					
56	8		2	" " "	90" " }					
57										
58	8		8	Truck Gear Cover	9½" × 28" } ⅛" Tank Steel					
59	8		16	" " "	8½" × 20" }					

BARS, SHAPES AND BILLETS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 10—Ash Pan**						
2	✓		3 FT.	Angle	1½" × 1½" × 3/16"					
3	✓		24 FT.	"	2" × 2" × ¼"					
4	✓		10 FT.	"	3" × 2" × ¼"					
5	✓		2 FT	~~Bar Iron~~	2½" × 2½" × 5/16"					
6	✓		8 FT.	BAR IRON	2" × ¼"					
7				**Group 11—Axle**						
8	✓		4	Axle Billet	8" × 8" × 975#					
9										
10				**Group 14—Boiler Details**						
11			—	Angles						
12	✓		1	Brace Tee	6" × 1" × 5¼" × 1¼" - 12'-0" LONG.					
13										
14			—	Crown Bar						
15				" "						
16				" "						
17	✓		1 SET	Stay Bolt Iron	455 FT. 15/16" DIA.					
18	✓		1 "	" " "	220 " 1" "					
19	✓		1 "	" " " —Hollow	210 " 1" " - ROME HOLLOW					
20										
21				**Group 20—Brake Equipment**						
22	✓		4	Brake Beam	9" - 25# I-BEAM 64" LONG.					
23	✓		1	" Cyl. Bracket Channel	12" - 30# CHANNEL 55¼" LONG					
24										
25				**Group 21—Bumper**						
26	✓		2	End Timber Channel	15" - 33# CHANNEL 102" LONG					
27	✓		4 FT	CAB STEP ANGLE	2½" × 2½" × 5/16"					
28	✓		12 FT	" " "	1½" × 1½" × 3/16"					
29				**Group 22 & 23—Cab & Details**						
30	✓		70 FT.	Cab Angle	2" × 2" × ¼"					
31	✓		15 "	" "	1½" × 1½" × 3/16"					
32	✓		40 "	" Beading	1¼" × 5/16" HALF OVAL					
33	✓		75"	" "	1" × ½ " ROUND					
34	✓		1	" Saddle Angle	2" × 2" × ¼" - 54" LONG.					
35	✓		15 FT.	" STEP	2½" × 5/8" SOFT STEEL					
36				**Group 48—Frame and Details**						
37			—	Frame—Right						
38			—	" —Left						
39	✓		4	" Body Bolster	10" - 35# CHANNEL 56¼" LONG					
40	✓		3	" Spreader	1" × 5" × 55¼" SOFT STEEL					
41			—	" Brace						
42	✓		2	" Angle	6" × 4" × ¾" - 36'-0" LONG.					
43	✓		2	" "	6" × 4" × ¾" - 37'-0" "					
44	✓		25 FT.	" "	3" × 3" × ½"					
45	✓		15 FT.	" "	6" × 6" × 5/8"					
46	✓		7 "	" "	6" × 3½" × 5/8"					
47	✓		8 "	" "	2½" × 2" × 5/16"					
48				" "						
49										
50				**Group 57—Lagging & Jacket**						
51	✓		1	Cylinder Hood Angle	1½" × 1½" × 3/16" - 14'-0" LONG.					
52										
53				**Group 71—Running Board**						
54	✓		34 FT.	Angle	1¼" × 1¼" × 3/16"					
55	✓		17 FT.	"	2½" × 2½" × 5/16"					
56			—	"						
57	✓		75 FT.	Band	⅛" × 1⅜"					
58										
59										

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BARS, SHAPES AND BILLETS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 72—Rods**						
2	✓		1	Billet—Rods	3"×6"×345#					
3	✓		1	" — " Straps	3½"×5"×240#					
4										
5				**Group 74—Shafts**						
6	✓		1	Crank Shaft Billet	7"×13"×1760#					
7										
8	✓		1	Line Shaft—Front	83"×4 5/8" DIA.					
9			—	" " —No. 2						
10			—	" " —No. 3						
11	✓		1	" " —Rear	86½"×4 5/8" DIA					
12										
13				**Group 75—Smoke Box & Stack**						
14			—	Angle—Deflector Plate						
15			—	" —Netting						
16	✓		1	" —Stack	1½"×1½"×3/16"-19'-0" LONG					
17			—	Stack Ring						
18	✓		16FT.	" Beading	1¼"×5/16 HALF OVAL					
19										
20				**Group 83—Tender Tank**						
21				Fuel Bunk Angle						
22				" " Beading						
23				" " Bar Iron—Wood Rack						
24				" " " " — " "						
25				**Group 85—Tender Frame**						
26				Frame—Front						
27				" —Sides						
28				" —Bolster						
29				" Brace Channel						
30				" " "						
31				" Channel—Rear						
32				" Angle						
33				" "						
34				" "						
35				" "						
36				" "						
37										
38				**Group 88—Tank Tender**						
39	✓		160FT.	Tank Angle—Water	2"×2"×¼"					
40			—	" " — "						
41	✓		31FT.	" Beading— "	1¼"×5/16 HALF OVAL					
42				" Bar Iron—Wood Rack						
43				Tank Angle—Oil						
44				" " —"						
45				" Beading—"						
46				" Coal Gate Angle						
47				**Group 93—Truck & Details**						
48	✓		4	Bolster Channel	69¾" LONG. } 9"-25# CHANNEL					
49	✓		4	" "	90" " }					
50	✓		4	" "	69¾" " }					
51	✓		2	" "	83⅞" " } 6"-15½# CHANNEL					
52	✓		2	" "	90" " }					
53										
54	✓		4	Tie Bar	2"×4½"×106"					
55	✓		2	" " Angle	4"×4"×½"-77" LONG					
56										
57				**Group 95—Wheels & Tires**						
58	✓		8	Tire—Section 95M.O.5015 A	32" O. D. 27" I. D. 6" Wide 2½" Thick					
59										

MISCELLANEOUS DETAILS AND SPECIALTIES

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 10—Ash Pan**						
2	✓		3	Hinge—Damper	4½"×1¾"×6" HALF BUTT.					
3	✓		4	" —Cleaning Door						
4	✓		2	ASH PAN NETTING (#10 WIRE)	8" WIDE 67" LONG 2½×2½" MESH.					
5				**Group 12—Bell**						
6			—	Bell						
7			—	" Ringer						
8										
9				**Group 14—Boiler Details**						
10	✓		4	Flex. Bolts	28½"×1⅛" DIA.					
11	✓		4	" "	27½"×1⅛" "					
12	✓		4	" "	26"×1⅛" "					
13	✓		4	" "	23½"×1⅛" "					
14	✓		16	" " Sleeves	TATES STYLE H-2½" LONG.					
15				" " "						
16				" " "						
17				" " Nuts						
18				" " "						
19	✓		16	" " Caps	TATES STYLE D					
20			—	" " "						
21	✓		151	Tubes	2" O. D. #12 B.W. Gauge 9 Ft. 0" In.			A.S.M.E.		
22			—	Flues	O. D. Gauge Ft. In.					
23	✓		151	Ferrules—Copper	2 O. D. 1/16" Thick 5/8" Wide			A.S.M.E.		
24			—	" — "	O. D. Thick Wide					
25										
26				**Group 20—Brake Equipment**						
27	✓		1 SET	Brake—Air	20 MO 5013-C, EXCEPT ONE 11" AIR COMP. RIGHT HAND, & ONE SD-5 PUMP GOVERNOR.					
28			—	" —Trans. Air						
29	✓		9	" —Shoes	Ⓢ PAT. 20-& 654					
30	✓		2	" ROD CONNECTION	1¼" TURNBUCKLES					
31				**Group 21—Bumper**						
32	✓		2	End Timber	8"×15½"×106"					
33	✓		2	" "	8½"×10½"×106"					
34			—	" "						
35			—	" "						
36										
37	✓		2	End Timber Drawhead Blocks	4½"×11½"×22"					
38										
39				**Group 23—Cab Details**						
40			—	Curtain						
41	✓		2	CAB DOOR LOCKS	YALE-NIGHT LOCKS-RIM LATCH					
42	✓		1	~~Hinge—Door~~ "XX" CAB WINDOW GLASS	18"×19"					
43	✓		1	" ~~—Window~~ "	18"×20"					
44	✓		2	" ~~—Ventilator~~ "	11"×12"					
45	✓		2	" " " "	12"×24"					
46	✓		1	" " " ~~Seat Cushion~~	14"×15"					
47	✓		6	" " " "	16"×26"					
48			—	Sliding Door Roller & Hangers						
49			—	" " Track						
50										
51				**Group 26—Cocks & Valves**						
52	✓		1	Valve—Air Pump	¼ CRANE #18H					
53			—	" —" " Inter.						
54	✓		1	" —" " Drain	¼" AIR COCK					
55	✓		1	" —Blower	¾" CRANE ~~#813~~ 1811 3/10/30.					
56	✓		1	" —Brake	¾" " #1811					
57	✓		1	" —" Exhaust Drain	½" GLOBE #1807					
58				" —Bell Ringer						
59	✓		2	" —Check Pipe Drain	½" CRANE GLOBE #1807					

MISCELLANEOUS DETAILS AND SPECIALTIES

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1				**Group 26—Cocks & Valves Con't**						
2	✓		1	Valve—Exhaust Drain	1/2" GLOBE } CRANE #1807					
3	✓		1	" —Fuel Sprinkler	1/2" " }					
4	✓		1	" — " " Drain	1/4" AIR COCK					
5	✓		1	" —Generator	3/4 CRANE #1811					
6	✓		2	" —Injector	1 1/2" " #1811 & 1 3/4" C.P. UNION					
7				" —Lubricator						
8	✓		1	" —Siphon	1 1/2" CRANE #1811					
9	✓		1	" — " Drain	3/8" AIR COCK					
10	✓		1	" —Steam Gauge Cock	1/4" CYL. COCK LEVER HANDLE & 3/8" C.P. UNION					
11	✓		1	" —Water Glass Drain	1/4" GLOBE }					
12	✓		1	" —Steam Chest "	1/2" " } CRANE #1807					
13	✓		2	" —Air Sander	1/4" " }					
14				" —Oil Burner						
15				" —" Heater						
16				" —" " Drain						
17				" —" Tank Heater						
18				" —" Blow Back						
19				" —" Tank						
20				" —Cyl. Cock						
21	✓		1	Blow-Off Cock	1 1/2" EVERLASTING (BRITISH COLUMBIA).					
22	✓		6	Cylinder "	1/2 UNION BIBB					
23										
24				**Group 27—Cocks & Val.** { Gauge, Water & Spec.						
25	✓		3	Gauge Cocks	3/4" NATHAN TYPE 272 A 1001 EXCEPT 3/4" P.THD.					
26										
27	✓		1	Water Gauge	#9 REFLEX					
28	✓		2	" " Cocks	3/4" NATHAN					
29										
30				**Group 37—Drawgear**						
31			—	Draft Gear						
32										
33	✓		2	Couplers M.C.B. AUTOMATIC STD. SPLIT SHANK	13" Knuckles—Face { SLOTTED / SOLID } PURCHASE ONE EXTRA KNUCKLE. SEND PRINTS FOR APPROVAL					
34					THE NATIONAL MALLEABLE CASTINGS CO. PRINT # 18178					
35			—	Coupler Clevis						
36										
37			—	Coupler Link						
38										
39				**Group 44—Exhaust Pipe**						
40	✓		1	Exhaust Pipe	6" W.I. PIPE 8'-0" LONG.					
41										
42				**Group 45—Fire Door & Brick**						
43			—	Fire Door						
44										
45			—	Fire Brick						
46										
47				**Group 54—Headlight & Lamps**						
48			—	Headlight—Oil						
49	✓		2	" —Electric	16" SUNBEAM					
50			—	" —Acetylene						
51	✓		1	" Generator	SUNBEAM TURBO					
52			—	" Switches						
53										
54	✓		1 SET	Headlight Equipment—Electric	54 M.O. 5004					
55										
56	✓		1	Lamp—Cab	DAYTON ELECTRIC					
57	✓		1	" —Water Gauge	" "					
58			—	" —Marker						
59										

MISCELLANEOUS DETAILS AND SPECIALTIES

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 55—Inj. & Feed Water**						
2	8		1	Injector—Right #7 NATHAN LIFTING	Connections—Steam 1 3/4" COPPER					
3			—	MONITOR-LEVER HANDLE TYPE # 88	" —Water 1 1/2" IRON					
4			—		" —Delivery 1 1/2" "					
5	8		1	Injector—Left #7 NATHAN LIFTING	" —Steam 1 3/4" COPPER					
6			1	MONITOR-LEVER HANDLE TYPE # 88	" —Water 1 1/2" IRON					
7					" —Delivery 1 1/2" "					
8				Feed Water Strainers						
9	8		2	Inj. Check Valve	1 1/2" SWING FOR 200# PRESSURE					
10			—	" " " Flange						
11	8		2	" Stop "	552D5010					
12										
13				**Group 57—Lagging & Jacket**						
14	8		1 SET	Lagging—Boiler	57 M.O. 5000-A					
15			—	" —Cylinder						
16			—	Washout Plug Cover						
17										
18				**Group 59—Lubrication**						
19	8		3	Grease ~~Oil~~ Cup—Crosshead Pin	#1 POWELL-PLAIN STEEL-SHANK 1/4" P. THD.					
20	8		6	" " — " Guide	#3 " " " " 1/2" P. "					
21			—	" " —Crank Pin						
22			—	" " — " Bearer						
23	8		1	Oil	SAMPLE CAN					
24			—	Grease Cup—Bottom Bracket						
25	8		1	Grease	SAMPLE CAN					
26	8		1	Lubricator—Cylinder	MICHIGAN SFEED [illegible] TYPE					
27			—	" —Air Pump	COMPLETE WITH STEAM VALVE					
28			—	" Checks						
29										
30				**Group 60—Oil Burner**						
31										
32				**Group 62—Pilot & Snow Plow**						
33										
34				**Group 63—Pipe Fittings**						
35			—	Fire Extinguisher						
36										
37			—	Hose—Fire						
38	8		1	" —Sander, Hand	1 5/8" X 8'-0" LONG - 3 PLY.					
39			—	" — " , "	[illegible]					
40	8		1	" — " , Air	1" X 16'-0" LONG - 3-PLY.					
41	8		1	" —Siphon	4" X 16'-0" LONG ENLARGED ENDS					
42			—	" —Sprinkler						
43			—	" —Tank Connection						
44										
45			—	Pipe—Copper Branch	O. D. Thick Long					
46	8		1	" — " Tallow	1/2" O. D. .083" Thick 18'-0" Long					
47	8		1	" — " Inj. Steam	1 3/4" O. D. .120" Thick 3'-0" Long					
48	8		1	" — " Lub. "	1" O. D. .109" Thick 1'-6" Long					
49	8		1	" — " Steam Gauge	3/8" O. D. .065" Thick 3'-0" Long					
50	8		1	" — " Air "	1/2" O. D. .083 Thick 3'-0" Long					
51			—	" —Dry						
52			—	" —Steam						
53										
54				**Group 65—Piston & Rod**						
55	8		9 SET	Piston Rod Packing	GD. 7719 SET 1 (PAXTON & MITCHELL)					
56	8		3	" " " Spring	#13					
57										
58				**Group 71—Running Boards**						
59			—	Running Boards						

MISCELLANEOUS DETAILS AND SPECIALTIES

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 73—Sand Box**						
2			—	Sanders—Air						
3										
4			—	Flue Sander Funnel						
5			—	" " Scoop						
6										
7				**Group 74—Shafts**						
8			7	Gear Rim—Cut Teeth						
9				Pinion — " "						
10				" — " "						
11										
12				**Group 75—Smoke Box & Stack**						
13			7	Smoke Box Netting						
14				" " "						
15				" " "						
16	8		1	Stack Netting	11" x 95"-3x3 MESH #10 B.W.G. WIRE					
17			—	" "						
18										
19				**Group 76—Springs**						
20				Springs—Draft Gear						
21				" —Truck Box						
22	8		40	" — " Bolster	762A5003					
23										
24				**Group 78-St. Ga., S. Val. & Tur.**						
25	8		1	Steam Gauge	5½" ASHCROFT-BRASS RING					
26										
27	8		2	Safety Valve CONSOLIDATED FORM H	Size 2" Open Set At 200#					
28				" "	" ~~Muffled~~. ~~Set At~~					
29				" "	Connections, Male, ~~Female~~					
30										
31				**Group 81—Superheater**						
32			7	Superheater Header						
33				" Tubes						
34				" Bands						
35				" Supports						
36				" Damper Cyl.						
37										
38				**Group 82—Tank Valves**						
39			—	Tank Cock						
40			—	" Coal Gate Hinge						
41				**Group 92—Tools**						
42			—	Equipment Sheet						
43	8		1 SET	Wrench List	92M06009					
44	8		1 PR.	Wrecking Frogs	#2 ALEXANDER					
45										
46				**Group 94—Valves**						
47			—	Valve Stem Packing	9# Vulca					
48			—	" " " Spring						
49										
50	8		3	Valve Plate Spring	#2					
51										
52			—	Valve—Balance Slide						
53										
54				**Group 95—Wheels & Tires**						
55			—	Wheels—Chilled						
56										
57				**Group 96—Whistle**						
58			—	Whistle	5" E. LAMBERT 2 CHIME					
59										

ANNEALED STEEL CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 10—Ash Pan**				
2			—	Ash Pan Hoppers				
3			—	" " Slides				
4								
5				**Group 12—Bell**				
6	P		1	Bell Tongue	12-85			
7								
8				**Group 14—Boiler Details**				
9			7	Boiler Brace Roof Tees				
10				" " Crown "				
11				" Crown Bar Lugs				
12	P		1	Mud Ring	14-161			
13								
14				**Group 18—Brackets**				
15	P		1	Bracket, Bottom	18-3			
16	P		4	" Crank Box Caps	18-32			
17			—	" Pad, Steam Bracket				
18								
19				**Group 20—Brake Equipment**				
20	P		1	Brake—Air Pump Bracket	20-613			
21				" Beam				
22	P		4	" " Fulcrum	20-87			
23	P		8	" Hanger Lugs	20-632			
24	P		8	" Heads	20-22			
25	P		2	" Lever Fulcrum	20-625			
26				" Rod Jaw				
27	P		2	" Reservoir Bracket	20-111			
28			7	" Valve Bracket				
29				" Strut				
30				" "				
31								
32				**Group 21—Bumper**				
33			—	Bumper—Front				
34			—	" —Rear				
35								
36				**Group 30—Crosshead**				
37	P		3	Crosshead	30-5			
38								
39				**Group 31—Cylinder**				
40	P		3	Cylinder Frame, Right	31-56			
41			—	" " , Left				
42								
43				**Group 37—Drawgear**				
44				Draft Gear Frame, Right Front				
45				" " " , Left "				
46				Draft Gear Frame, Right Rear				
47				" " " , Left "				
48				" " Friction Plates				
49				" " Sliding Bar, Right				
50				" " Sliding Bar, Left				
51				" " Connecting Bar, Front				
52				" " Connecting Bar, Rear				
53				" " Yoke Blocks				
54								
55				Couplers				
56				" Knuckles				
57				" Lock				
58				" " Lifter				
59								

ANNEALED STEEL CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 37—Drawgear Con't.**				
2			⎫	Drawheads				
3			⎪	" Carrier Links				
4			⎭	" Guides				
5								
6	8		2	Brace Foot, Bolster	37-73			
7	8		2	" " , Drawhead	37-74			
8								
9			⎫	Shakle Bar Pocket, Eng. Frame				
10			⎪	" " " , Tender Frame				
11			⎭	" " Brace Foot				
12								
13				**Group 39—Eccentrics**				
14			—	Eccentric Strap—Top Half				
15			—	" " —Bottom Half				
16								
17				**Group 44—Exhaust Pipe**				
18			—	Exhaust Pipe Gland				
19								
20				**Group 48—Frame & Details**				
21			⎫	Boiler Side Pad				
22			⎪	" " "				
23			⎭	Brace—Frame				
24	8		2	" —Front End Timber	48-57			
25	8		2	" —Rear " "	48-57			
26								
27	8		2	Center Plate	48-656			
28								
29			—	Deck Plate				
30								
31			—	End Casting				
32								
33			—	Expansion Plate Bracket				
34								
35	8		1	Furnace Bearer—~~Right~~ FRONT	48-695			
36	8		1	" " —~~Left~~ REAR	48-696			
37	8		2	" " - FILL BLOCK	48-693			
38	8		2	~~Side Bearing~~ - SUPPORT	48-694			
39								
40			⎫	Truss Pads—Right				
41			⎪	" " —Left				
42			⎭	" Rod Saddle				
43								
44				**Group 58—Link Motion**				
45	8		3	Link	58-1			
46				" Hanger Fulcrum				
47								
48				**Group 66—Plugs**				
49			—	Washout Plug Cap				
50								
51				**Group 68—Reverse Lever**				
52			—	Reverse Lever Arm				
53			—	" " Fulcrum Bracket				
54								
55			—	Quadrant Bracket				
56								
57				**Group 71—Running Boards**				
58			—	Running Board Bracket				
59								

ANNEALED STEEL CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 74—Shafts**				
2	✓		2	Coupling Ring No. 1—Whole	74-16			
3	✓		2	" " No. 1—Halves	74-17			
4	✓		2	" " No. 2—Whole	74-16			
5	✓		2	" " No. 2—Halves	74-17			
6				" " No. 3—Whole				
7				" " No. 3—Halves				
8				" " No. 4—Whole				
9				" " No. 4—Halves				
10	✓		1	" Sleeve No. 1	74-202			
11	✓		1	" " No. 2	74-202			
12				" " No. 3				
13				" " No. 4				
14				" Square Shaft No. 1				
15				" " " No. 2				
16				" " " No. 3				
17				" " " No. 4				
18								
19	✓		2	Collars—Line Shaft No. 1—Core	74-351			
20	✓		2	" —" " No. 1— "	74-350			
21	✓		2	" —" " No. 2— "	74-351			
22	✓		1	" —" " No. 2— "	74-350			
23				" —" " No. 3— "				
24				" —" " No. 3— "				
25				" —" " No. 4— "				
26				" —" " No. 4— "				
27	✓		1	" —" " Rear — "	74-678			
28								
29				COUPLINGS				
30	✓		1	Crank—Front Sq. Taper Core	74-27			
31	✓		1	" —Rear Sq. Taper "	74-27			
32	✓		1	Line Shaft—Front "	74-489			
33				" " No. 2—Front "				
34				" " No. 2—Rear "				
35				" " No. 3—Front "				
36				" " No. 3—Rear "				
37	✓		1	" " Rear "	74-489			
38								
39	✓		4	Gear Rims } H. C. Steel to Lima Specification L-2	74-62-D			
40								
41	✓		4	Pinions Core } H. C. Steel to Lima Specification L-2	74-63-B			
42				" " } H. C. Steel to Lima Specification L-2				
43				" " } H. C. Steel to Lima Specification L-2				
44								
45				**Group 75—Smoke Box & Stack**				
46	✓		2	Smoke Box Brace Pad	75-10			
47								
48				**Group 78—St. Ga., S. Val.& Tur.**				
49			—	Safety Valve Turret				
50								
51				**Group 79—Steam Pipes**				
52			—	Steam Pipe				
53								
54				**Group 85—Tender Frame**				
55			—	Center Plate				
56								
57				End Casting				
58				" Timber Brace				
59				Side Bearing				

ANNEALED STEEL CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 88—Tender Tank**				
2			—	Tank Lug				
3								
4				**Group 91—Throttle**				
5	8		1	Throttle Lever Quadrant	91-21			
6	8		1	" Pipe Flange	91-471			
7				**Group 92—Tools**				
8			—	Swab Cup Wrench				
9								
10			—	Wrecking Frog—Right				
11			—	" " —Left				
12								
13				**Group 93—Truck & Details**				
14			—	Bolster End Casting—Right				
15			—	" " " —Left				
16	8		4	" Guides	93-616			
17								
18	8		2	Center Plate	93-133			
19								
20			—	Side Bearings				
21								
22			—	Truck Column—Right				
23			—	" " —Left				
24								
25				Truck Cross Tie Bar				
26				" " " "				
27				" " " "				
28								
29	8		2	Truck Frame—Right	93-608			
30	8		2	" " —Left	93-609			
31			—	" " Splice				
32								
33	8		2	Truck Box—Right Front Truck	93-614-B			
34			—	" " — " No. 2 "				
35			—	" " — " No. 3 "				
36	8		2	" " — " Rear "	93-614-B			
37				" " Cap—Right Front Truck				
38				" " " — " No. 2 "				
39				" " " — " No. 3 "				
40				" " " — " Rear "				
41								
42	8		4	Truck Pedestal	93-613			
43	8		4	" " Cap	93-342			
44	8		4	" " Inside Box	93-290			
45								
46			—	Journal Box Wedge				
47								
48				**Group 94—Valves**				
49			—	Valve Stem Crosshead				
50								
51				**Group 95—Wheels & Tires**				
52			—	Wheel Center				
53								
54				**Group 96—Whistle & Rigging**				
55	0		1	Whistle Lever	96-~~XX~~ 33			
56								
57								
58								
59								

MALLEABLE CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 10—Ash Pan**				
2								
3				**Group 12—Bell**				
4			—	Bell Crank				
5			—	" Tongue				
6								
7				**Group 18—Brackets**				
8								
9				**Group 20—Brake Equipment**				
10			—	Brake Heads				
11	8		1	" Valve Handle	20-44			
12								
13				**Group 23—Cab Details**				
14	0		2	Cab Window Clamp Screw	23-2			
15			—	" Storm Window Rod Bracket				
16	8		2	" Ventilator Clamp	23-3			
17			—	" " "				
18				" " " Brackets				
19				" " " Handle				
20				" " " Rod Bracket				
21				" " Lift Handle				
22								
23				**Group 26—Cocks & Valves**				
24			—	Cylinder Cock Body				
25				" " Cap				
26				" " Lever				
27								
28			—	Oil Cock Body				
29				" " Cap				
30				" " Plug				
31								
32				**Group 27—Cocks & Val.** (Gauge, Water & Spec.)				
33			—	Gauge Cock Handle				
34								
35				**Group 28—Cock Rigging**				
36	1		3	Cylinder Cock Rod Lever	28-1			
37								
38				**Group 37—Drawgear**				
39			—	Coupler Clevis				
40			—	" Link				
41								
42			—	Uncoupling Shaft Bracket				
43								
44				**Group 53—Hand Rail & Steps**				
45			—	Handrail Bracket				
46			—	" Bumper Post				
47								
48			—	End Timber Handle Bracket				
49								
50				**Group 54—Headlight & Lamps**				
51			—	Marker Lamp Bracket				
52								
53				**Group 55—Inj. & Feed Water**				
54			—	Hose Connection				
55				" " Nuts				
56				" " "				
57				" " Nipple				
58								
59								

MALLEABLE CASTINGS

	CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
1				**Group 57—Lagging & Jacket**				
2	8		36	Jacket Band Lugs	57-28			
3								
4	8		9	Washout Plug Casing	57-4			
5								
6				**Group 59—Lubrication**				
7			—	Grease Cup				
8								
9			—	Oil Cup				
10								
11			—	Oil Cup Base				
12								
13				**Group 63—Pipe Fittings**				
14			—	Blower Pipe Elbow				
15			—	" " Flange				
16								
17				**Group 68—Reverse Lever**				
18			—	Reverse Lever Latch Handle				
19			—	" " " Guide				
20								
21				**Group 73—Sand Box**				
22			—	Sand Box Lever				
23								
24				**Group 75—Smoke Box & Stack**				
25			—	Smoke Box Door Buttons				
26	8		1	" " " Hinge	75-25			
27	8		1	" " " "	75-26			
28								
29				**Group 78-St. Ga., S. Val. & Tur.**				
30			—	Turret Valve Handle				
31								
32				**Group 82—Tank Valve**				
33			7	Tank Cock Body				
34				" " Cap				
35				" " Plug				
36								
37				**Group 91—Throttle & Dry Pipe**				
38			7	Throttle Lever Latch Handle				
39				" " " Guide				
40				" " Quadrant				
41								
42			—	**Group 92—Tools**				
43								
44			—	**Group 93—Truck & Details**				
45								
46				**Group 96—Whistle**				
47			—	Whistle Lever				
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								